BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work: Consultancy services for preparation of survey, designs, Drawing, estimate preparation etc., (Detailed project Report) For the work of improvements to parks in ward No 4 in Yelahanka satellite town sub division

Park Developments							**Est Cost:**	**200.00**	**Lakhs**
Sl No	**Descriptions**	**Unit**	**No**	**L**	**B**	**D**	**Qty.**	**Rate**	**Amount**
1	**Dismantling** barbed wire or flexible wirer rope in **fencing including making** rolls and stacking within 50m lead. including cost of materials, labour, HOM complete as per specifications.								
	Compound Wall								
	Hanuman Temple Yelahanka								
	North Side LHS Gate		1	13.00		1.60	20.80		
	North Side RHS Gate		1	19.00		1.60	30.40		
	Eastern Side		1	89.00		1.60	142.40		
	Southern Side		1	39.00		1.60	62.40		
	Western Side		1	90.00		1.60	144.00		
	Park Inside Temple								
	Northen Side		1	7.00		1.60	11.20		
	Southern Side		1	8.40		1.60	13.44		
	Eastern Side		1	27.50		1.60	44.00		
	Western Side		1	27.00		1.60	43.20		
	Shankar Nag Park								
	Western Side		1	105.00		2.00	210.00		
	Southern Side		1	82.00		2.00	164.00		
	Northen Side		1	77.00		2.00	154.00		
	Eastern Side		1	82.00		2.00	164.00		
	Netaji Park								
	Damge		10	1.85		1.54			
							1203.84		
	Consider 40 %						**481.54**		
		Mtr			Total Qnty		**481.54**	**7.42**	**3573.00**
2	KSRB 2-2.2 : Earthwork excavation for **foundation of buildings,** water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5.								
	Compound Wall								
	Hanuman Temple Yelahanka								
	North Side LHS Gate		1	13.00	1.20	1.20	18.72		
	North Side RHS Gate		1	19.50	1.20	1.20	28.08		
	Eastern Side		1	89.00	1.20	1.20	128.16		
	Southern Side		1	39.00	1.20	1.20	56.16		
	Western Side		1	90.00	1.20	1.20	129.60		
	Park Inside Temple								
	Northen Side		1	7.00	1.20	1.20	10.08		
	Southern Side		1	8.40	1.20	1.20	12.10		
	Eastern Side		1	27.50	1.20	1.20	39.60		
	Western Side		1	27.00	1.20	1.20	38.88		
	Shankar Nag Park								
	Western Side		1	105.00	1.20	1.20	151.20		
	Southern Side		1	82.00	1.20	1.20	118.08		
	Northen Side		1	77.00	1.20	1.20	110.88		
	Eastern Side		1	82.00	1.20	1.20	118.08		
	For Benches		12	2.00	1.50	0.30	10.80		
		Cum			Total Qnty		**970.42**	**475.94**	**461859.79**

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Sl No	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
3	KSRRB M300-53. **Construction of embankment** with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305								
	For Benches								
			12	1.80	1.50	0.20	6.48		
		Cum				Total Qnty	6.48	344.50	2232.36
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with **OPC cement** @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 123.No. 4.2 of CSR 2015-16)								
	Bed Concrete								
	Hanuman Temple Yelahanka								
	North Side LHS Gate		1	13.00	0.90	0.15	1.76		
	North Side RHS Gate		1	19.50	0.90	0.15	2.63		
	Eastern Side		1	89.00	0.90	0.15	12.02		
	Southern Side		1	39.00	0.90	0.15	5.27		
	Western Side		1	90.00	0.90	0.15	12.15		
	Park Inside Temple								
	Northen Side		1	7.00	0.90	0.15	0.95		
	Southern Side		1	8.40	0.90	0.15	1.13		
	Eastern Side		1	27.50	0.90	0.15	3.71		
	Western Side		1	27.00	0.90	0.15	3.65		
	Shankar Nag Park								
	Western Side		1	105.00	0.90	0.15	14.18		
	Southern Side		1	82.00	0.90	0.15	11.07		
	Northen Side		1	77.00	0.90	0.15	10.40		
	Eastern Side		1	82.00	0.90	0.15	11.07		
	For Benches		12	2.00	1.50	0.15	5.40		
	For Surrounding Bench		12	6.40	0.20	0.15	2.30		
		Cum				Total Qnty	937.67	1005.44	942774.85
5	KSRB 2-4 : **Refilling available earth** around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.								
	Filling Sand								
	Total Earth Work						979.42		
	Deduction								
	Bed Concrete						-87.93		
	Foundation						-239.90		
	Basement						-119.95		
		Cum				Total Qnty	532.89	138.26	65785.53
6	KSRB 5.2-2 : Providing and constructing **granite / trap / basalt size stone masonry** in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	Basement								
	Hanuman Temple Yelahanka								
	North Side LHS Gate		1	13.00	0.60	0.60	4.68		
	North Side RHS Gate		1	19.50	0.60	0.60	7.02		
	Eastern Side		1	89.00	0.60	0.60	32.04		

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Sl No	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
	Southern Side		1	39.00	0.60	0.60	14.04		
	Western Side		1	90.00	0.60	0.60	32.40		
	Park Inside Temple								
	Northen Side		1	7.00	0.60	0.60	2.52		
	Southern Side		1	8.40	0.60	0.60	3.02		
	Eastern Side		1	27.50	0.60	0.60	9.90		
	Western Side		1	27.00	0.60	0.60	9.72		
	Shankar Nag Park								
	Western Side		1	105.00	0.60	0.60	37.80		
	Southern Side		1	82.00	0.60	0.60	29.52		
	Northen Side		1	77.00	0.60	0.60	27.72		
	Eastern Side		1	82.00	0.60	0.60	29.52		
		Cum			Total Qnty		**239.90**	**4763.64**	**1142816.29**
7	KSRB 5.3-3 : Providing and constructing **granite / trap / basalt size stone masonry** in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	Basement								
	Hanuman Temple Yelahanka								
	North Side LHS Gate		1	13.00	0.45	0.40	2.34		
	North Side RHS Gate		1	19.50	0.45	0.40	3.51		
	Eastern Side		1	89.00	0.45	0.40	16.02		
	Southern Side		1	39.00	0.45	0.40	7.02		
	Western Side		1	90.00	0.45	0.40	16.20		
	Park Inside Temple								
	Northen Side		1	7.00	0.45	0.40	1.26		
	Southern Side		1	8.40	0.45	0.40	1.51		
	Eastern Side		1	27.50	0.45	0.40	4.95		
	Western Side		1	27.00	0.45	0.40	4.86		
	Shankar Nag Park								
	Western Side		1	105.00	0.45	0.40	18.90		
	Southern Side		1	82.00	0.45	0.40	14.76		
	Northen Side		1	77.00	0.45	0.40	13.86		
	Eastern Side		1	82.00	0.45	0.40	14.76		
		Cum			Total Qnty		**119.95**	**5811.98**	**697158.62**
8	Providing **ruled pointing** to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. – do – cement mortar 1:3								
	Pointing								
	Hanuman Temple Yelahanka								
	North Side LHS Gate		2	13.00		0.40	10.40		
	North Side RHS Gate		2	19.50		0.40	15.60		
	Eastern Side		2	89.00		0.40	71.20		
	Southern Side		2	39.00		0.40	31.20		
	Western Side		2	90.00		0.40	72.00		
	Park Inside Temple								
	Northen Side		2	7.00		0.40	5.60		
	Southern Side		2	8.40		0.40	6.72		
	Eastern Side		2	27.50		0.40	22.00		
	Western Side		2	27.00		0.40	21.60		
	Shankar Nag Park								
	Western Side		2	105.00		0.40	84.00		
	Southern Side		2	82.00		0.40	65.60		
	Northen Side		2	77.00		0.40	61.60		
	Eastern Side		2	82.00		0.40	65.60		
		Cum			Total Qnty		**533.12**	**103.88**	**55380.51**

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Sl No	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
9	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:6 , as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing complete as per specifications. KBS No 5.6								
	Block Work								
	Hanuman Temple Yelahanka								
	North Side LHS Gate		1	13.00		1.80	23.40		
	North Side RHS Gate		1	19.50		1.80	35.10		
	Eastern Side		1	89.00		1.80	160.20		
	Southern Side		1	39.00		1.80	70.20		
	Western Side		1	90.00		1.80	162.00		
	Column		20	0.20		1.80	7.20		
		Sqm			Total Qnty		458.10	966.72	442854.43
10	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cm. thick, well compacted, in foundation, plinth and sills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)								
	Copping								
	North Side LHS Gate		1	13.00	0.20	0.10	0.26		
	North Side RHS Gate		1	19.50	0.20	0.10	0.39		
	Eastern Side		1	89.00	0.20	0.10	1.78		
	Southern Side		1	39.00	0.20	0.10	0.78		
	Western Side		1	90.00	0.20	0.10	1.80		
	Column		20	0.40	0.20	0.10	0.16		
	Park Inside Temple								
	Northen Side		1	7.00	0.20	0.10	0.14		
	Southern Side		1	8.40	0.20	0.10	0.17		
	Eastern Side		1	27.50	0.20	0.10	0.55		
	Western Side		1	27.00	0.20	0.10	0.54		
	Shankar Nag Park								
	Western Side		1	105.00	0.20	0.10	2.10		
	Southern Side		1	82.00	0.20	0.10	1.64		
	Northen Side		1	77.00	0.20	0.10	1.54		
	Eastern Side		1	82.00	0.20	0.10	1.64		
	On SSM Basement								
	North Side LHS Gate		1	13.00	0.45	0.10	0.59		
	North Side RHS Gate		1	19.50	0.45	0.10	0.88		
	Eastern Side		1	89.00	0.45	0.10	4.01		
	Southern Side		1	39.00	0.45	0.10	1.76		
	Western Side		1	90.00	0.45	0.10	4.05		
	Park Inside Temple								
	Northen Side		1	7.00	0.45	0.10	0.32		
	Southern Side		1	8.40	0.45	0.10	0.38		
	Eastern Side		1	27.50	0.45	0.10	1.24		
	Western Side		1	27.00	0.45	0.10	1.22		
	Shankar Nag Park								
	Western Side		1	105.00	0.45	0.10	4.73		
	Southern Side		1	82.00	0.45	0.10	3.69		
	Northen Side		1	77.00	0.45	0.10	3.47		
	Eastern Side		1	82.00	0.45	0.10	3.69		
	For Below Kerb								
	North side and east side		2	70.00	0.20	0.10	2.80		
	North and west side		2	68.00	0.20	0.10	2.72		
	Shankar Nag Park								
	Allround		2	310.00	0.20	0.10	12.40		
	Entrance Gate		2	6.00	0.20	0.10	0.24		

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Sl No	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
	Entrance to Hut		2	15.00	0.20	0.10	0.60		
	L type from Hut		2	60.00	0.20	0.10	2.40		
	L type from Hut		2	65.00	0.20	0.10	2.60		
			2	20.00	0.20	0.10	0.80		
	Next to fabrication'		1	20.00	0.20	0.10	0.40		
		Sqm			Total Qnty		**68.44**	**5747.32**	**393323.59**
11	KSRB15-3.9 :Providing **18mm thick cement plaster** in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
	Plastering								
	Hanuman Temple Yelahanka								
	North Side LHS Gate		2	13.00		3.80	98.80		
	North Side RHS Gate		2	19.50		3.80	148.20		
	Eastern Side		2	89.00		3.80	676.40		
	Southern Side		2	39.00		3.80	296.40		
	Western Side		2	90.00		3.80	684.00		
	Column Edge								
	Column Edge=0.03+0.03+0.03+0.03 =0.12		20	0.12		3.80	9.12		
		Sqm			Total Qnty		**1912.92**	**259.70**	**496785.32**
12	KSRB 15-16.1 : Providing and **finishing external walls in two coats** with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 117, I.No. 15.53.2 of SR 2015-16).								
	Painting								
	Hanuman Temple Yelahanka								
	North Side LHS Gate		2	13.00		3.80	98.80		
	North Side RHS Gate		2	19.50		3.80	148.20		
	Eastern Side		2	89.00		3.80	676.40		
	Southern Side		2	39.00		3.80	296.40		
	Western Side		2	90.00		3.80	684.00		
	Column Edge								
	Column Edge=0.03+0.03+0.03+0.03 =0.12		20	0.12		3.80	9.12		
							1912.92		
		Sqm			Total Qnty		**1912.92**	**108.12**	**206824.91**
13	Supplying and fixing **M.S. Rectangular poles made** out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) including cost of materials, labour, HOM complete as per specifications.								
	New Chain Link								
	Park Inside Temple								
	Northen Side		5			2.20	11.00		
	Southern Side		8			2.20	17.60		
	Eastern Side		12			2.20	26.40		
	Western Side		15			2.20	33.00		
		No's			Total Qnty		**88.00**	**910.54**	**80127.52**

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Sl No	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
14	Providing **chain link fencing 50mm size of 8 guage properly** stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.								
	New Chain Link								
	Park Inside Temple								
	Northen Side		1	25.00		1.50	37.50		
	Southern Side		1	30.00		1.50	45.00		
	Eastern Side		1	45.00		1.50	67.50		
	Western Side		1	35.00		1.50	52.50		
		Sqm			Total Qnty		**202.50**	**757.90**	**153474.75**
15	Providing and fixing **M.S. Block pipe** of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.								
	New Chain Link								
	Park Inside Temple								
	Northen Side		2	25.00			50.00		
	Southern Side		2	30.00			60.00		
	Eastern Side		2	45.00			90.00		
	Western Side		2	35.00			70.00		
		Mtr			Total Qnty		**270.00**	**432.48**	**116769.60**
16	Removing and resetting of **kerb stones.**Page No. 270 Item No. 37.57/ PWD SR 2018-19								
	R/R Kerbs								
	North side and east side		2	70.00			140.00		
	North and west side		2	68.00			136.00		
	East and south Side		2	50.00			100.00		
	West and South Side		2	40.00			80.00		
	Shankar Nag Park								
	Allround		2	310.00			620.00		
	Entrance Gate		2	6.00			12.00		
	Entrance to Hut		2	15.00			30.00		
	L type from Hut		2	60.00			120.00		
	L type from Hut		2	65.00			130.00		
			2	20.00			40.00		
	Next to fabrication'		1	20.00			20.00		
							1428.00		
	Missing And Broken Slabs 10 %						-142.80		
		Mtr			Total Qnty		**1285.20**	**104.94**	**134868.89**
17	Providing and fixing pre cast **solid concrete kerb stones** of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete.Page No. 27/ Item No. 5.29.2/ PWD SR 2018-19								
	New Kerbs								
	Missing And Broken Slabs 10 %						142.80		
	For Surrounding Bench		12	6.40			76.80		
							219.60		
			No Of Kerbs				488.00		
		Sqm			Total Qnty		**488.00**	**467.46**	**228120.48**

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Sl No	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
18	KSRRB 800-1, **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications, MORTH Chapter 8 Page No. 180/ Item No. 24.1/ PWD SR 2018-19								
	New Kerbs								
	North side and east side		2	70.00	0.40		56.00		
	North and west side		2	68.00	0.40		54.40		
	East and south Side		2	50.00	0.40		40.00		
	West and South Side		2	40.00	0.40		32.00		
	Shankar Nag Park								
	Allround		2	310.00	0.40		248.00		
	Entrance Gate		2	6.00	0.40		4.80		
	Entrance to Hut		2	15.00	0.40		12.00		
	L type from Hut		2	60.00	0.40		48.00		
	L type from Hut		2	65.00	0.40		52.00		
			2	20.00	0.40		16.00		
	Next to fabrication'		1	20.00	0.40		8.00		
	For Surrounding Bench		12	6.40	0.40		30.72		
		Sqm			Total Qnty		601.92	84.80	51042.82
19	**Removing and resetting of available heavy duty cobble stones 60mm** thick interlock pavers, using cement and course sand for manufacture of block of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specification. (for available cobble stones) (P-VI/131)								
	R/R Cobble Stone								
	North side and east side		1	70.00	2.00		140.00		
	North and west side		1	68.00	3.00		204.00		
	East and south Side		1	50.00	2.00		100.00		
	West and South Side		1	40.00	2.00		80.00		
	Shankar Nag Park								
	Allround		1	310.00	3.00		930.00		
	Entrance Gate		1	6.00	3.00		18.00		
	Entrance to Hut		1	15.00	2.50		37.50		
	L type from Hut		1	60.00	2.50		150.00		
	L type from Hut		1	65.00	3.00		195.00		
			1	20.00	3.00		60.00		
	Next to fabrication'		1	20.00	3.00		60.00		
							1974.50		
	Missing And Broken Stone 10 %						-197.45		
		Sqm			Total Qnty		3949.00	575.93	2274347.57
20	KSRB 14.6 : Providing and laying **heavy duty cobble stones interlock** pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBSKSRB 14.6-2 (do - heavy duty cobble stones **60mm thick**) (P.No. 103, I.No. 14.6 of PWD SR 2018-19)								
	New Cobble Stone								
	Missing And Broken Stone 10 %								
							197.45		
		Sqm			Total Qnty		197.45	1116.18	220389.74

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Sl No	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
21	Providing and laying/fixing cement base, precast, pre polished cement concrete, **designer tiles 25mm** thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No. 112, I.No. 14.62 of PWD SR 2018-19)								
	For Benches								
			12	1.80	1.50		32.40		
		Sqm			Total Qnty		**32.40**	**1305.92**	**42311.81**
22	KSRRB M1200-46. **Sand filling** in wells complete as per drawing and technical specifications including cost of all materials, labour, HOM, form works, scaffolding & centering complete as per specifications. MORTH Specification No.1207 (P.No.217, I.No.26.124)								
	For Childrens Play Ground								
			1	24.20	23.00	0.30	166.98		
		Sqm			Total Qnty		**166.98**	**2806.88**	**468692.82**
23	Supplying and fixing polished **grey granite slab benches** of size 5 feet width of seating slab with bottom slab of 75mm th. with 1.5 feet width with two stands strong base with back slab (suport) machine cutting top slab mirror polish with 50 mm Th. with 1.5 feet depth side slab of 100 mm th. 2.5 feet height. including bull nosing of all edges, fixing in CC 1:2:4 including loading & unloading and with all lead and lift etc., complete and executing the work as per the direction of Engineer-in-charge of the work								
	Bench								
	Hanuman Temple		4				4.00		
	Shankar Nag Park		4				4.00		
		No's			Total Qnty		**8.00**	**18200.00**	**145600.00**
24	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)								
	Vidhanasowda Gril Work								
	Shankar Nag Park								
	Western Side		1	105.00		2.00	210.00		
	Southern Side		1	82.00		2.00	164.00		
	Northen Side		1	77.00		2.00	154.00		
	Eastern Side		1	82.00		2.00	164.00		
							692.00		
		Rmt			Total Qnty		**692.00**	**9144.00**	**6327648.00**

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Sl No	Description	Unit	No	L	B	D	Qty	Rate	Amount
25	Fabricating, providing and erecting in position Hot dip galvanised Date, Using 75 X 75 X 6mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm NB dip galvanised sq. rod for verticals at 150mm c/c as shown in the drawing including providing hot dip galvanised forged ornamental design in 16mm sq. rods and heads at top, middle and bottom. Intermediate supports at 2512 mm and 3020 mm arch bend to hot dip galvanised flats. The work is inclusive of troughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 25mm solid sq. block assembled with 20mm dia bearing in three places for each leaf. Heavy Duty Locking arrangements at two places including cost of labour, painting, erecting charges using MSE pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Date Rate Vidhanasoudh Civil Circle 1 1 3.00 3.00 3.00 One Item Each Day 3.00 [illegible] [illegible]									
26	KSSRS M/09-1 Loading and Unloading of Stone Kerbs: Stone aggregate, Sand, Kankar, Moorum. KSSRS M/09-1 : Placing lifted at loading point, loading with hoe and basket, dumping, turning to return trip, excluding time for haulage and return trip complete as per specifications. MORTH-900 Chapter 9 KSSRS M/09-1, Cost of Haulage Excluding Loading and Unloading MORTH-900 Chapter 9 Clause : Surface Road Regional 1 No. 1 1.00 1.00 1.00 One Item Each Day 1.00 [illegible] [illegible]									
27	Providing and Fixing Ornamental M.S Flat Bar Bird as per Approved Size Post Bits Hanuman Temple 6 6.00 Yelahanka Shanka Veg Park 6 6.00 Nos Each Day 12.00 [illegible] [illegible]								
28	Providing and fixing M.S Gate as per Chief Architect Drawing using 50mm x 50mm x 6 gauge M.S hollow pipe frame work 3nos of ornamental shape as shown in the drawing and 25mm x 6mm and 12 x 10mm Space rod at vertical alternately spaced at 10cm c/c in two halves and 40mmx40mm M.S flats at horizontal member and at the top one 16mm spikes are provided at alternate vertical member as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges etc., complete as per specification. Gate Nos 1 1.00 3.00 3.00 One Item Each Day 3.00 [illegible] [illegible]									
	Children Play Equipments								

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Sl No	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
29	Supply and fixing of childern Play Equipment Fiero A Swing : Shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Plastic Components such as swing seats [super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 - 8mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges								
		Set	1.00				1	126892.00	126892.00
30	Supply and fixing of childern Play Equipment Two seater seesaw : The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists of 2 seats which is made of LLDPE virgin plastic of size 305mm X 213 mm X 125 mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges								
		Set	1				1.00		
							1.00	83478.00	83478.00
31	Supply and fixing of childern Multi Play Equipment :Upright structural posts of height 2.35 m , 3.0 m and 3.25 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Handrail of height 2.20 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish. Snake Ladder Climber of size 0.99 m x 0.62 m x 1.20 m with thickness of Dia 38 mm, Piped walls of Height 2.6 m are all robotic welded fabricated from 32 O.D. galvanized steel pipes for the outer pipes and 25mm O.D. galvanized steel for the inner parallel bars with a baked on powder coat finish. crab Roof of size 1.9 m x 1.7 m x 0.77m, Sun Roof of size 2.0 m x 1.78 m x 0.77m, Straight slide 2.28 m x 0.83 m x 1.20 m , Spiral Slide of size 2.22 m x 1.60 m x 1.5 m, Rock climber of size 1.03 m x 0.70 m x 1.20 m Panel. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges								
		Set	1				1.00		
							1.00	1498900.00	1498900.00
								Total B	1709270.00
								Total Amount	16,926,188.10
								GST 12% ON Total A	1,826,030.17
								Add 5% ON Tender Processing Total Amount	846,309.41
								DPR 1 %	200,000.00
								PMC 1 %	200,000.00
								Miscellaneous and unforeseen charges	1,472.32
								Grand Total	20,000,000.00

CERTIFICATE

1) Certified that the Estimate prepared with necessary provisions as Per site conditions.

2) Certified that the estimate is prepared on the basis of PW,P & IWTD Bangalore Circle, for the year 2018-19 and Data Approved Rate

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP
5/12/19

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:-IMPROVEMENTS TO VIVEKANANDA STADIUM AND PROVIDING INDOOR GYM EQUIPMENTS TO HOYSALA GROUND IN WARD NO.03 AND 04 IN YELAHANAKA SATELLITE TOWN SUB DIVISION.

								Estimation Cost.Rs	20000000.00
Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	KERB STONES & COBBLE STONES								
1.00	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202 (P.No.141, I.No. 18.49 of PWD SR 2018-19)								
	Old Kerb stone								
	Outside	m	1	509.5			509.50		
	Inside	m	1	1045.73			1045.73		
	Around Children Play Area	m	1	15			15.00		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						1570.23	**12.72**	**19,973.33**
2.00	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete(page no 27 item no 5.30)								
	For Pathway kerb stone								
	Outside	m	1.00	509.50			509.50		
	Inside	m	1.00	1045.73			1045.73		
	Around Children Play Area	m	1.00	15.00			15.00		
	Gym Area	m	2.00	42.68			85.36		
	Total length						**1655.59**		
	No of Kerb Stones	Nos	Total Length/0.45				**3679.00**		
	Basic rate							408.00	
	Area weightage 6%							24.48	
	Total						**3679.00**	**432.48**	**1591093.92**
3.00	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 12/I.No. 4.2 of CSR 2018-2019)								
	For Pathway kerb stone								
	Outside	Cum	1.00	509.50	0.15	0.10	7.64		
	Inside	Cum	1.00	1045.73	0.15	0.10	15.69		
	Around Children Play Area	Cum	1.00	15.00	0.15	0.10	0.23		
	For below Cobble Stone								
	For Pathway	Cum	1.00	796.00	2.50	0.15	298.50		
	For CC Floring								
	at Entrance	Cum	1.00	11.20	10.30	0.15	17.30		
	For sump	Cum	1	5.40	5.40	0.15	4.37		
	New Drain								
	Beside Gate	Cum	1.00	10.30	0.90	0.15	1.39		
	Beside Sump	Cum	1.00	15.50	0.90	0.15	2.09		
	For Gym area								
	for Solid blocks	Cum	2.00	42.68	0.20	0.15	2.56		
	for Kerbstone	cum	2.00	42.68	0.15	0.10	1.28		
	for Gym area	cum	2.00	12.19	9.15	0.15	33.46		
	Basic rate							5194.00	
	Area weightage 6%							311.64	
	Total						**384.52**	**5505.64**	**2117013.28**
4.00	KSRB 15-15.3 Providing and applying painting in two coat with Synthetic enamel paint of approved brand and manufacture on concrete surface with cost of materials ,labour ,complete as per specifications.(SR Pg no 180 item no 24.1)								
	Kerb Stone								
	Outside	Sqm	1.00	509.50		0.50	254.75		
	Inside	Sqm	1.00	1045.73		0.50	522.87		
	Around Children Play Area	Sqm	1.00	15.00		0.50	7.50		
	Gym Area	Sqm	2.00	42.68		0.50	42.68		

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Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Basic rate							80.00	
	Area weightage 6%							4.80	
	Total						**827.80**	**84.80**	**70197.02**
5	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms). Including cost of materials, labour , HOM complete as per specifications. Page no 270 item no 37.51								
	dismantling of cubble stone								
	For Pathway	Sqm	1	796	2.5		1990.00		
	at Entrance	Sqm	1	11.2	10.3		115.36		
	Basic rate							86.00	
	Area weightage 6%							5.16	
	Total						**2105.36**	**91.16**	**191924.62**
6.00	KSRB 14.6.1 Providing and laying heavy duty cobble stones 60mm thick interlock pavers,using cement and course sand for manufacturer of blocks of approved size,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed(average Thinkness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to comeup in between joints , final compaction of pavers surfaces joint into its final level including cost of materials,labour and HOM complete as per specifications(Pg No-103, I N- 14.6)								
	For Pathway	Sqm	1.00	796.00	2.50		1990.00		
	Basic rate							1053.00	
	Area weightage 6%							63.18	
	Total						**1990.00**	**1116.18**	**2221198.20**
	Construction of Chain link fencing with gate								
7.00	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.5 of PWD SR 2018-19)								
	For Benches Platforms	Cum	89.00	1.80	1.60	0.10	25.63		
	For MS Railling	Cum	1.00	80.00	0.30	0.15	3.60		
	For Childrens Equipment								
		Cum	12.00	0.45	0.45	0.45	1.09		
	For Gym Equipments	Cum	96.00	0.45	0.45	0.45	8.75		
	For CC Floring								
	at Entrance	Cum	1.00	11.20	10.30	0.08	8.65		
	New Gate	Cum	2.00	0.90	0.90	0.30	0.49		
	Basic rate							5328.00	
	Area weightage 6%							319.68	
	Total						**48.21**	**5647.68**	**272283.12**
8.00	Providing and fixing M.S. Hand railing for Balcony with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.								
		Sqm	1.00	80.00		1.20	96.00		
	Basic rate							2840.00	
	Area weightage 6%							170.40	
	Total						**96.00**	**3010.40**	**288998.40**
9.00	Providing and fixing M.S Gate as per Chief Architect Drawing , using 50mm x 50mm x 14 gauge M.S hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16mm x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40 mm x 6mm M.S flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. all the steel surface should be throughly cleaned free of rust and painted with anti materials , labour charges for all items of work , Hire charges for welding , cutting and grinding eqipment , electricity charges , with lead and lift , loading and unloading charges , etc complete as per specification (SR 18-19, P-45, I.No-7.37)								

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Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	New Gate	Sqm	1.00	2.00		1.20	2.40		
	Basic rate							3012.00	
	Area weightage 6%							180.72	
	Total						**2.40**	**3192.72**	**7662.53**
10.00	KSRB 15-18.2 Providing and applying enamel metal paint two coats (exclusive primer coat) over new steel or other metal surfaces brushing to give an shade after cleaning oil grease dirt and other forien matters including cost of materials labour complate as per specifications (P123 15.74 PW.P & IWTD PWD SR -2018-19)								
	MS Railling	Sqm	1.00	80.00		1.20	96.00		
	Basic rate							95.00	
	Area weightage 6%							5.70	
	Total						**96.00**	**100.70**	**9667.20**
11.00	**KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 120, I.No. 15.53.2 of SR 2018-19).**								
	Wall								
	Front side	Sqm	1.00	80.80		1.07	86.46		
	Back side	Sqm	1.00	80.80		3.10	250.48		
	Short Wall	Sqm	1.00	4.20		3.10	13.02		
	Basic rate							102.00	
	Area weightage 6%							6.12	
	Total						**349.96**	**108.12**	**37837.24**
12	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 page no 147 item no19.60								
	For Badminton Court	cum	1	17.411	10.10	0.3	52.73		
	For VolleyBall Court	Cum	1	22	13	0.3	85.80		
	Basic rate							325.00	
	Area weightage 6%							19.50	
	Total						**138.53**	**344.50**	**47725.11**
13	Badminton Court Net as per the specification and directions of the Engineer in charge.								
	For Badminton Court	Each	1				1.00		
	Data Rate To be approved							2000.00	
	Total						**1.00**	**2000.00**	**2000.00**
14	Badminton Court Net Pole as per the specification and directions of the Engineer in charge.								
	For Badminton Court	Nos	2				2.00		
	Data Rate To be approved							10000.00	
	Total						**2.00**	**10000.00**	**20000.00**
15	Volley ball Court Net as per the specification and directions of the Engineer in charge.								
	For VolleyBall Court	Each	1				1.00		
	Data Rate To be approved							3000.00	
	Total						**1.00**	**3000.00**	**3000.00**
16	Volley Ball Court Net Pole as per the specification and directions of the Engineer in charge.								
	For Volley Ball Court	Set	1				1.00		
	Data Rate To be approved							10000.00	
	Total						**1.00**	**10000.00**	**10000.00**
17.00	Executive Bench-Made out of Sadarahalli grey stone with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90X Length 1500 width 45 cms (Data approved rate)								
	benches	Nos	89.00				89.00		
	Data Rate							**18200.00**	
	Total						**89.00**	**18200.00**	**1619800.00**
18.00	KSRRB 2.6 Providing and filling sand in trenches to required depth including watring ramming with all leads and lift complete as per specifications and directed by the engineer incharge at the site (P-7 I N-2.13 SR 2018-19)								

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S.No	Description of work		Measurement				Qty	Rate	Amount
		Unit	No.	L	B	D			
	For Benches Platforms	Cum	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	Basic rate							[illegible]	
	Area weightage 4%							[illegible]	
	Total							[illegible]	
[illegible]	KSRB 5-11 Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 Part - 2005 and constructed with CM 1:4, as per IS 2572-2005 including cost of all materials, labour charges, scaffolding, curing complete as per specifications. KSR No.5-4 (item no5.27.1 page no.27)								
	For Benches Platforms	Sqm	[illegible]	3.40		0.20	149.52		
	Gym Area	Sqm	2.00	4.58		0.20	17.072		
	Basic rate							[illegible]	
	Area weightage 4%							[illegible]	
	Total						166.59	[illegible]	[illegible]
[illegible]	Providing and laying fixing cement base, precast, pre polished cement concrete, designe tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 and finished with best pointing using white cement, including cost of materials, mortar including cutting, grinding the edge to ball/full round wherever required, labour, curing complete as per specification. (P.No. 112, DNo. 14.82 of PWD SR 2015-16)								
	For Benches Platforms	Sqm	[illegible]	2.20	2.00		39.60		
	Gym Area	Sqm	2.00	12.19	9.15		223.07		
	Basic rate							[illegible]	
	Area weightage 4%							[illegible]	
	Total						[illegible]	[illegible]	[illegible]
[illegible]	KSRB 208-8. Clearing and grubbing road land including uprooting rank vegetation, grass, trash, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH Chapter 2								
	Dashes:	Sqm	1.00	10.00	10.00		100.00		
	Basic rate							[illegible]	
	Area weightage 4%							[illegible]	
	Total						100.00	[illegible]	[illegible]
	Drain								
[illegible]	KSRB 308-1. Earthwork excavation by manual means for roads, drain & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposal earth is to levelled neatly after breaking of clod complete as per specifications[illegible] No. 8.2.2.1 (No. 18.10.2.7 pg. 17.1) Size inside 57x23x1.20x3 =68.80								
	New Drain								
	Beside Gate	Cum	1.00	10.30	0.80	1.05	8.73		
	Beside Sump	Cum	1.00	15.50	0.80	1.05	14.05		
	Drain Testing								
	South	Cum	1.00	47.20	0.80	0.75	39.36		
	North	Cum	1.00	40.80	0.80	0.75	24.48		
	West	Cum	1.00	26.20	0.80	0.75	15.72		
	East	Cum	1.00	48.10	0.80	0.75	28.86		
	For Gym area								
	for Solid blocks and Kerbstone	Cum	2.00	42.60	0.20	0.25	8.52		
	For ramp	Cum	1	5.4	5.4	1.85	53.87		
	Basic rate							[illegible]	
	Area weightage 4%							[illegible]	
	Main total & 1.8% (5%+2%+20%)							[illegible]	
	Total						[illegible]	[illegible]	[illegible]

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Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
23.00	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	New Drain								
	Beside Gate								
	Bottom Slab	Cum	1.00	10.30	0.90	0.15	1.39		
	Side Walls	Cum	2.00	10.30	0.15	0.75	2.32		
	Beside Sump								
	Bottom Slab	Cum	1.00	15.50	0.90	0.15	2.09		
	Side Walls	Cum	2.00	15.50	0.15	0.75	3.49		
					Sub Total		**9.29**		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						**9.29**	**7070.20**	**65668.02**
24.00	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	New Drain								
	Beside Gate	Sqm	1.00	10.30	0.90		9.27		
	Beside Sump	Sqm	1.00	15.50	0.90		13.95		
	Data rate							**2337.00**	
	Total						**23.22**	**2337.00**	**54,265.14**
								SUB TOTAL	**9780366.90**
								GST Charges (12% of estimated cost)	**1173644.03**
								Total	**10954010.92**
	Sump								
25	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 16, Item No 4.28								
	Bottom slab	Cum	1	21.6		0.2	4.32		
	Sump walls	Cum	4	5.4		2.5	54.00		
		Cum	4	5		2.5	50.00		
	Basic rate							258.00	
	Area weightage 6%							15.48	
	Total						**108.32**	**273.48**	**29623.35**
26	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Specification No. KBS 4.6.2 page no.16 item no 4.29.2								
	Cover slab	Sqm	1	5.4	5.4		29.16		
	Basic rate							400.00	
	Area weightage 6%							24.00	
	Total						**29.16**	**424.00**	**12363.84**
27	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.10								
	For sump								
	Bottom slab	Cum	1	5.40	5.40	0.20	5.83		
	Sump walls	Cum	2	5.40	0.20	2.50	5.40		
		Cum	2	5.00	0.20	2.50	5.00		
	Cover slab	Cum	1	5.40	5.40	0.20	5.83		
	Basic rate							5812.00	
	Area weightage 6%							348.72	
	Total						**22.06**	**6160.72**	**135930.13**

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Sl No	Description of work	Unit	Measurement No.	L	B	D	Qty	Rate	Amount
22	KSRR 4.9.2 : Providing 1 M.T from Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, binding, placing in position, lapping and / or welding wherever required, tying with binding wire and indenting to the adjoining members wherever necessary complete as per design. Chairs, hooks and wastage shall not be measured and paid, cost of material, labour, H.M of machinery complete as per specifications. Specification No. KSR 4.9.3 Pg No. 18 Item No 4.9.2								
	Sump	Cum					22.84		
		Kg	Steel assumed 125 Kgf cum of Concrete				2738.80		
		Tonne					2.74		
	Drain	Cum					9.60		
		Kg	Steel assumed 95 Kgf cum of Concrete				911.76		
		Tonne					0.91		
	Basic rate							10944.00	
	Area weightage 6%							656.64	
	Total	tonne					3.65	11600.64	42342.34
23	KSRR 12.6.1 : Providing 20mm square M.S louvered and fixing in manhole Dia 750.00 with M.10 cement concrete block of 1:2:4(1/2mm), using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KSR 12.6.6 Pg No. 75 item no. 11.66								
	For sump	No.s	4				4.00		
	Basic rate							214.00	
	Area weightage 6%							16.56	
	Total						4.00	892.56	3570.24
24	Waterproofing of R.C.C Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Cleaning of honey comb, voids cracks / construction joints with cement slurry (1kg cement added in 10 lit of water, added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 lit per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and siloxol linear copolymer @ 0.30 lit per sqm and finally applying polymer slurry made up of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @2 Kg/sqm on the whole surface, including all above charges tools and equipments, all complete as per the specification, page no 69 item no 10.5.1								
	For sump								
	Bottom slab	Sqm	1	5.4	5.4		29.16		
	Sump walls	Sqm	2	5.4		2.5	27		
		Sqm	2	5		2.5	25		
	Cover slab	Sqm	1	5.4	5.4		29.16		
	Basic rate							56.00	
	Area weightage 6%							21.56	
	Total						110.32	567.56	62591.82
							TOTAL AMOUNT		66996.87
							GST Charges (12% of estimated cost)		59,759.3
							Grand Total		126,756.00
	CHILDREN'S PLAY EQUIPMENTS								
31.00	Supply and fixing of Children Multi Play Equipment with curved slide and number panel : Upright structural pipes of height 2.4 m, 2.7 m, 3.2 m schedule 80 IS 1239 Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing, All metal components are to be finished with a baked on powder coat finish With deck of size 1.45 x 1.45m and staircase of size 1.5m x 0.77 m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Decks are pressed, punched, and welded and treated and vinyl plastic coated to a thickness of 6mm. Along with Handrail of height 2.2 m and Dia 32 mm shall be an all-inclusive welded unit, fabricated from 32 OD galvanized steel pipes with a baked on powder coating finish Curved Slide of size 1.36 m x 1.85 m x 2.6 m, Panels Composite 3 Monkey bars of size 1.8 m x 1.3 m Decks of size 1.45 x 1.45m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Decks are pressed, punched, and welded and treated and vinyl plastic coated to a thickness of 6mm. Roof of size Dia 2 m and height 0.82 m, Spiral Slide of size 1.16 m x 1.6 m x 2.6 m, Panels The rates are to be inclusive of supply and installation at site, inclusive of All Taxes and Transportation Charges								
		Each	1.00				1.00		
	Basic rate							220704.00	
	Total						1.00	220704.00	220704.00
32.00	Supply and fixing of children Play Equipment Two seater swings : The Set Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the load created not at the center which is of size 2010 mm length and Dia 114 mm. It consists of 2 seats which is made of LLDPE virgin plastic of size 350mm X 210 mm X 125 mm. The rates are to be inclusive of supply and installation at site, inclusive of All Taxes and Transportation Charges								
		Each	1.00				1.00		
	Basic rate							67500.00	
	Total						1.00	67500.00	67500.00

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Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
33.00	Supply and fixing of childern Play Equipment Fiero A Swing : Shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Plastic Components such as swing seats [super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 - 8mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges								
		Each	1.00						
	Data Rate						**1.00**		
	Total							126892.00	
							1.00	**126892.00**	**126892.00**
	Gym Items								
34.00	Supply & fixing of Arm & Pedal Bike : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 830 MM x 500MM x 1450 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				**2.00**		
	Data Rate							212500.00	
	Total						**2.00**	**212500.00**	**425000.00**
35.00	Supply & fixing of Big Shoulder Wheel : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 810MM x 1710MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				**2.00**		
	Data Rate							150000.00	
	Total						**2.00**	**150000.00**	**300000.00**
36.00	Supply & fixing of Elliptical Cross Trainer: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 865 MM x 1710 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				**2.00**		
	Data Rate							175000.00	
	Total						**2.00**	**175000.00**	**350000.00**

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Sl No	Description of work		Measurement				Qty	Rate	Amount
		Unit	No.	L	B	D			
37.00	Supply & fixing of Pull Down Challenger : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecessive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2570 MM x 840 MM x 2200 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				**2.00**		
	Data Rate							296000.00	
	Total						**2.00**	**296000.00**	**592000.00**
38.00	Supply & fixing of Seated Chest Press : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecessive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1955 MM x 730 MM x 1955 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				**2.00**		
	Data Rate							287500.00	
	Total						**2.00**	**287500.00**	**575000.00**
39.00	Supply & fixing of Rider : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecessive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 910 MM x 655 MM x 1210 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				**2.00**		
	Data Rate							112500.00	
	Total						**2.00**	**112500.00**	**225000.00**
40.00	Supply & fixing of Tai Chi Spinners : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1150 MM x 1120 MM x 1620 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				**2.00**		
	Data Rate							143750.00	
	Total						**2.00**	**143750.00**	**287500.00**

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Sl No	Description of work		Mesurement				Qty	Rate	Amount
		Unit	No.	L	B	D			
41.00	Supply & fixing of HD Sit Up Station : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1365 MM x 1335 MM x 700 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				2.00	156250.00	
	Data Rate						2.00	156250.00	312500.00
	Total								
42.00	Supply & fixing of HD Squat Pushing : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2270 MM x 635 MM x 1640 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				2.00	268750.00	
	Data Rate						2.00	268750.00	537500.00
	Total								
43.00	Supply & fixing of HD Health Walker :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1070 MM x 615 MM x 1360 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				2.00	175000.00	
	Data Rate						2.00	175000.00	350000.00
	Total								
44.00	Supply & fixing of HD Mini Ski :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1150 MM x 900MM x 1285 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				2.00	199100.00	
	Data Rate						2.00	199100.00	398200.00
	Total								

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Sl No	Description of work		Mesurement				Qty	Rate	Amount
		Unit	No.	L	B	D			
45.00	Supply & fixing of HD Waist Twister :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1460 MM x 1310 MM x 1150 MM . Capacity 3 persons. Inclusive of All Taxes and Transportation Charges								
		Each	2.00				2.00		
	Data Rate							162500.00	
	Total						**2.00**	**162500.00**	**325000.00**
								SUB TOTAL FOR CHILDRENS PLAY EQUIPMENT	**2411665.00**
								GYM EQUIPMENTS	**4677700.00**
								Sump	**548784.40**
								Grand Total	**18592160.32**
								DPR Charges (1% of estimated cost)	**200000.00**
								Project management And Consultancy Charges(1% of estimated cost)	**200000.00**
								Tender Premium (5% of Estimated Cost)	**1000000.00**
								Miscellenious and rounding	**7839.68**
								Total Amount	**20000000.00**
									RUPEES TWO CRORE ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019 and approved rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

8/12
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